

## 102.10 - Lead Base Alloys (disk and powder forms)

SRMs in the form of disks are approximately 50 mm in diameter and 16 mm thick. They are intended for use with optical emission spectrometric methods of analysis.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	53e	127b	1129	1131	1132	C2416	C2417	C2418	C2415a
Description	Lead-Base Bearing Metal (84Pb-10Sb-6Sn)	Solder (40Sn — 60Pb)	Solder (63Sn-37Pb)	Solder (40Sn - 60Pb)	Lead-Base Bearing Metal (84Pb - 10Sb - 6Sn)	Bullet Lead	Lead-Base Alloy	High-Purity Lead	Battery Lead (UNS 52770)
Unit of Issue	(150 g)	(150 g)	(200 g)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)

Concentration are expressed as mass fraction, in %.

Aluminum (Al)					<0.0001	<0.0001	<0.0001	
Antimony (Sb)	10.26	0.43	0.13	0.43	10.26	0.79	0.010	(0.0001)
Arsenic (As)	0.057	0.01	0.055	0.01	0.057	0.056	0.011	<0.0001)
Bismuth (Bi)	0.052	0.06	0.13	0.06	0.052	0.10	0.010	<0.0005)
Cadmium (Cd)					(0.0002)	(<0.0002)	0.0003	0.00497
Calcium (Ca)					<0.001	(<0.001)	(<0.0005)	
Cobalt (Co)					(<0.0002)	(<0.0002)	(<0.0005)	
Copper (Cu)	0.054	0.011	0.16	0.011	0.054	0.065	0.010	(0.0001)
Iron (Fe)	<0.001				<0.001	(<0.0005)	(<0.0003)	(<0.0005)
Manganese (Mn)					(<0.0005)	(<0.0003)	(<0.0005)	
Nickel (Ni)	0.003	0.012	0.010	0.012	0.003	(<0.0005)	(<0.0005)	(<0.0005)
Selenium (Se)								0.01005
Silver (Ag)		0.01	0.075	0.01		0.0044	0.010	0.0001
Sulfur (S)						0.0015	(<0.0005)	0.0061
Tellurium (Te)						(<0.0005)	(<0.0005)	(<0.0005)
								0.01034

Concentration are expressed as mass fraction, in %.

Tin (Sn)	5.84	39.3	62.7	39.3	5.84	0.09	(<0.010)	(<0.0005)	0.3058
Zinc (Zn)						(<0.0005)	(<0.0005)	(<0.0005)	

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only